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USER MANUAL PAGE 29

SKYMASTER®

Digital Satelliten-Receiver

SKYMASTER DCI 9210

User Manual

DIGITAL SATELLITE RECEIVER

DCI 9210

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DVB Digital Video Broadcasting **Trade Mark of the DVB Digital Video Broadcasting Project (1700)**

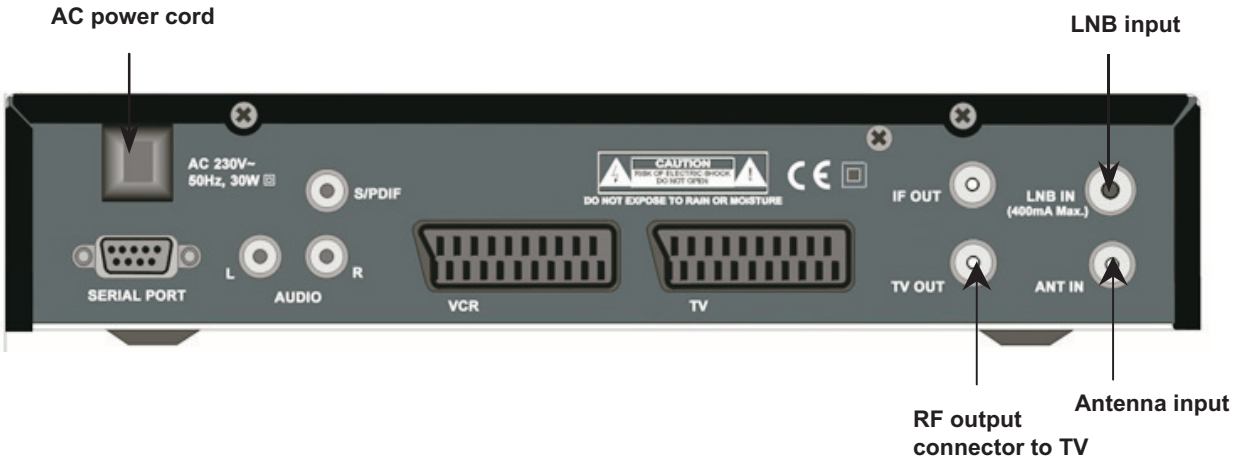
1. Features

1. MPEG-II video(MP@ML)
2. MPEG-I audio Layer 1, Layer 2
3. MPEG-II digital & fully DVB compliant
4. Capable of scanning the frequency for SMATV –IF system
5. Plug & Play installing program set-up
6. On-screen display with 256-color full resolution
7. LD quality video, CD quality audio
8. Compatible with DiSEqC 1.2
9. RS232C port for additional information service and updating IRD control software
10. Displays signal level to set-up the satellite antenna with ease
11. Power recovery function
12. 64-Step Volume control
13. Powerful editing facilities
    (PIDs, TV or Radio Channel, Channel Name, Satellite Name/Transponders)
14. Teletext supported(your TV needs teletext for this)
15. Subtitle supported (with optional background)
16. S/PDIF(Sony/Philips Digital Interface) for digital audio
17. Favorite channel function (up to 96 channels)
18. SCPC/MCPC receivable from Ku-Band satellites
19. Capable of receiving unencrypted free digital programs
20. User-friendly OSG menu with full function
21. IR remote control unit (RCU)
22. Last channel memory function
23. Variable aspect ratio (4:3, 16:9) with pan vector
24. EPG for on screen channel information
25. Parental lock / Installation Lock / Receiver Lock
26. Multi-lingual function according to the satellite and program provider
27. Total 2,000 Channels programmable (TV: 1,500 CH. & Radio : 500 CH.)
28. Over-the-Air software program downloadable
29. 2 x Common Interface for taking up PCMCIA modules.

2. Front & Rear View

FRONT PANEL

REAR PANEL



Note) All cables used for connecting the receiver should be well-shielded type cable.

3. Remote Control Unit (RCU)

Switches the Receiver ON/OFF.

Switches the sound ON/OFF.

The EPG key shows program information of the selected channel. (EPG : Electronic Program Guide)

Shows Subtitle menu to select the subtitle language.

Shows program information provided by the broadcaster.

1 ~ 9 Direct choice of TV / Radio channel and other commands by numeric keys.

When you want to see the main menu or return to the previous menu.

Return to the current video viewing at any time.

The **Volume** and **Channel** keys control the two most frequently used functions of the receiver. The cursor keys are for channel ▲▼ and volume ◄►. The **OK** key is used to select a program, a highlighted line or parameter value.

The **Page UP/Down** key is used to move up or down a page in the channel list.

The **Recall** key selects the previously viewed channel.

The **TV/RAD (Radio)** key switches between TV and radio mode.

Select the audio language or the sound track you want among data to be transmitted from the satellite.
To return to current channel, press or **EXIT**.

The **FAV** key shows a list of your selected favorite channels.

The **VIEW** key shows a thumbnail representation of the current channel.

The **SAT** key shows a list of selectable satellites.

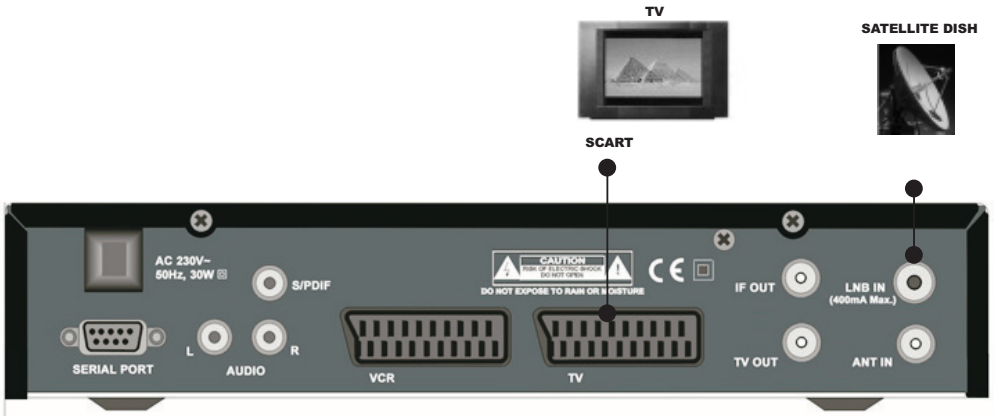
4. Getting Started

Please do NOT PLUG the receiver into Mains until you finish making all connections to the unit.

Connect the coaxial cable from the satellite dish to the LNB IN socket of the receiver.
(Connector should be adapted finger-tight.)

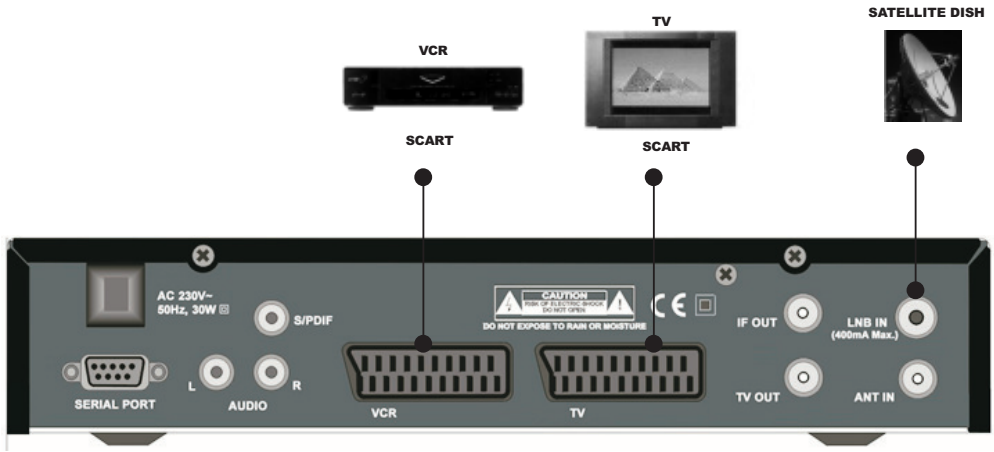
Receiver to TV with SCART

• Connect the “TV” SCART on the receiver with the SCART of TV.



Receiver to VCR, TV with SCART

• Connect the “TV” SCART on the receiver with the SCART of TV.
• Connect the “VCR” SCART on the receiver with the SCART of VCR.



5. Operation and Menu Program

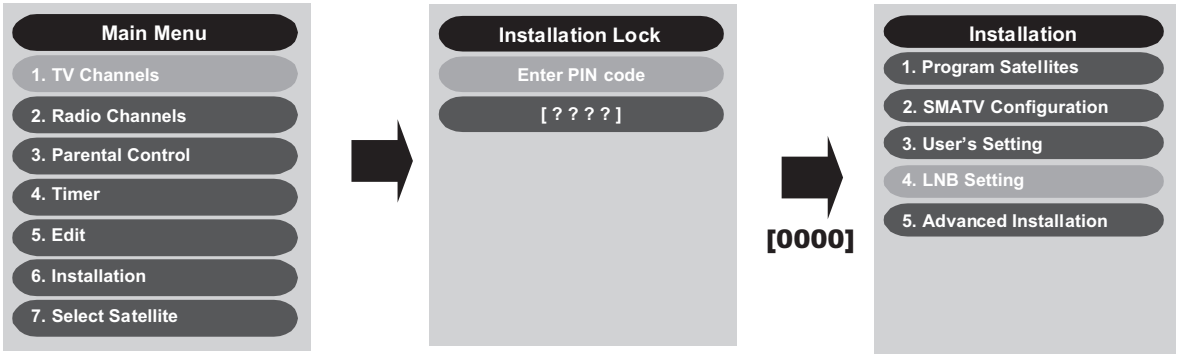
Main Menu

Press ⏻ on the remote control unit (RCU).
(or press ⏻/I on the front panel of the receiver)

Press **MENU** to display Main Menu on the screen.

Select menu using channel up/down keys or numeric keys.
Please note that **OK** is always a confirmation of your selection.
To return to the previous menu, press **MENU**.

Installation



The initial code is set as **[0000]** and you can change it (see "Change PIN code" in page 39).

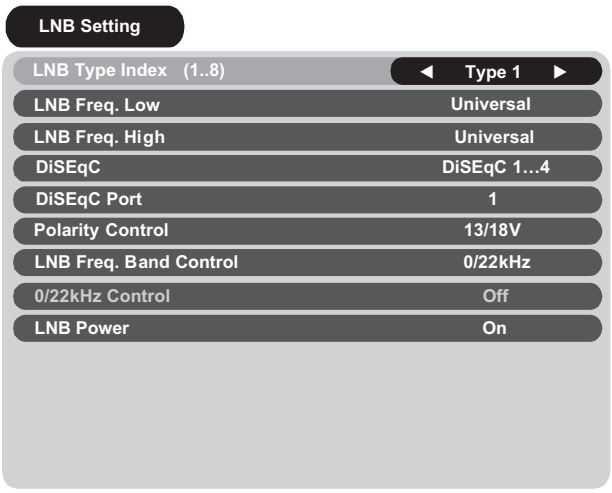
• Above menu for inputting the PIN code is displayed only when the Installation Lock is set as [ON].

LNB Setting

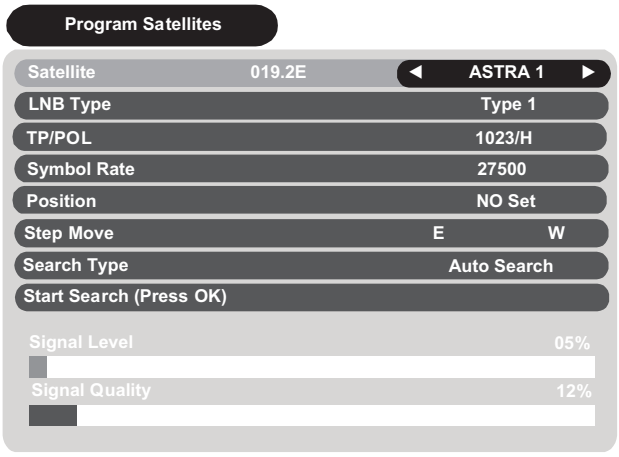
Select the "LNB Setting" menu in the "Installation" menu using the ▲▼ keys.

Select the LNB type which is conforms to your LNB using the ◄► keys.

Other parameter values should be changed manually according to your LNB type.
Press the **OK** key to confirm your selection.



Program Satellites



Refer to the Signal Quality bar and the Signal Level bar at the bottom of the screen. It is recommended that the signal is at the Medium level or higher.
If it is not , please adjust your satellite dish.

This menu is to align your dish to the selected satellite.

After setting the parameters, press the **OK** key to store the parameter values. And Start earch (Press **OK**) to search the channels of transponder you want.

If you are unable to get any signal quality, please check the LNB Setting to ensure you have selected the correct LNB and switch settings.

In case you are using the DiSEqC positioner, you should set the most east satellite and most west satellite you want on the “Position” bar.

- Most East satellite : change the satellite name into you want by the most east satellite on the “Satellite” bar and move to “Position” bar and press the Volume down key (◀) until the Signal Level is at the medium level or higher. And press the **OK** key to store this satellite as the most east satellite.

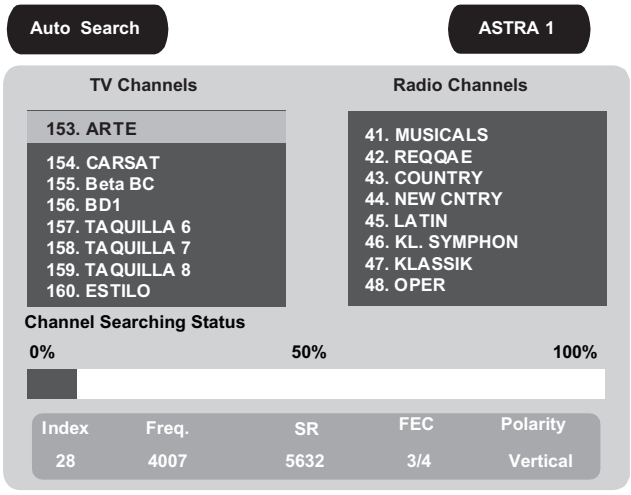
- Most West satellite : change the satellite name into you want by the most west satellite on the “Satellite” bar and move to “Position” bar and press the Volume up key (▶) until the Signal Level is at the medium level or higher. And press the **OK** key to store this satellite as the most west satellite.

Then, start the “Auto Search” to search and store the TV channels and Radio channels of the satellite automatically.

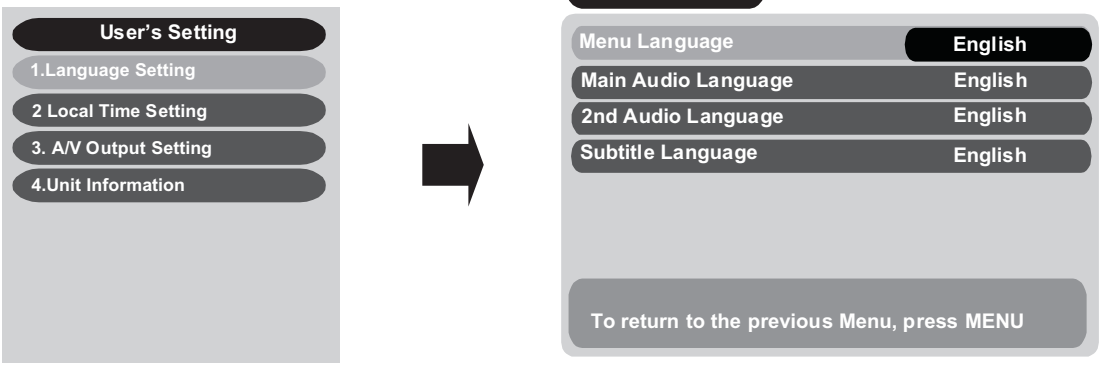
Auto Search

Searches the satellite selected for TV channels and Radio channels, which are then stored and shown on the screen.
TV channels are shown on the left.
Radio channels are shown on the right.

Note) Do not press POWER (⏻) on the RCU or on the receiver while doing Auto Search. All other keys of the RCU will not work during searching.



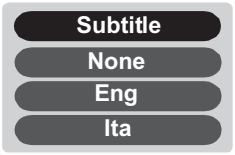
User's Setting



You can select the desired language for the OSG (On-Screen Graphics) display using the ◀ ▶ keys when the "Menu Language" option is selected. Similarly you can selected a different audio channel when the "Audio Language" option is selected. This option allows you to select a different language to listen to if supported.

Subtitle

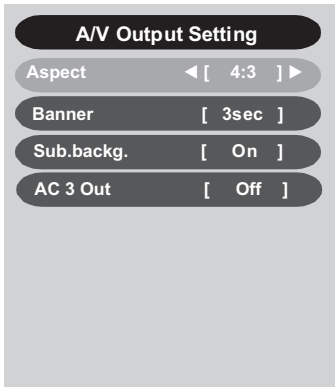
Select "Subtitle language" at "Select Language Setting" menu.
While watching your wanted channel, the subtitle shall be displayed only when the selected subtitling language is provided by the broadcaster.
To check if subtitle language is available, press ' ⊟ " key on the remote control unit, then all the available subtitle languages will be shown on the screen.



Local Time Setting

You can set the area of the selected place (time zone) and summer time On/Off. You can adjust the time from +59 to -59 minutes by using the Time offset.

A/V Output Setting



Aspect Please select your TV format.
4:3 for normal screen TV
16:9 for wide screen TV

Banner You can select OSG viewing time of the information about the current channel & program among 2/3/4/5/6/8/10secs by using volume up/down keys.

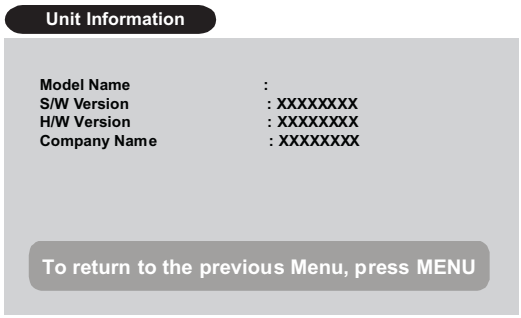
Sub.backg. Select 'On' for Subtitle background on TV (Subtitle background).

AC 3 Out If this parameter is set as [ON], you can enjoy the Dolby Digital sound on the channel provided this function.

Note: To enjoy this sound, you should first connect the S/PDIF socket of the receiver to Digital Audio Amplifier.

Unit Information

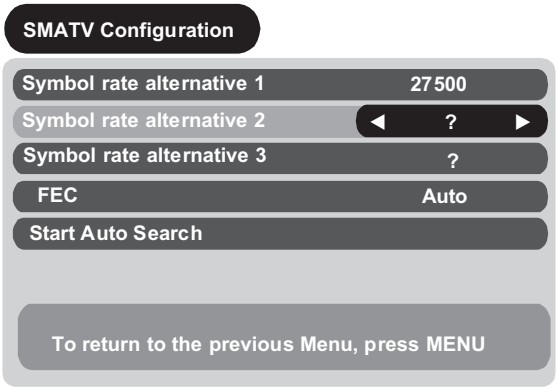
You can see the detailed information of this receiver on this menu.


Unit Information
Model Name :
S/W Version : XXXXXXXX
H/W Version : XXXXXXXX
Company Name : XXXXXXXX
To return to the previous Menu, press MENU

SMATV Configuration

A Satellite Master Antenna Television (SMATV) system which is intended for the distribution of television and sound signals to household in one or 6 more adjacent buildings.

A SMATV System represents a means for sharing the same resources among several users for satellite and terrestrial reception, and it is designed to perform the adaptation of the satellite TV signals to the SMATV channel characteristics.

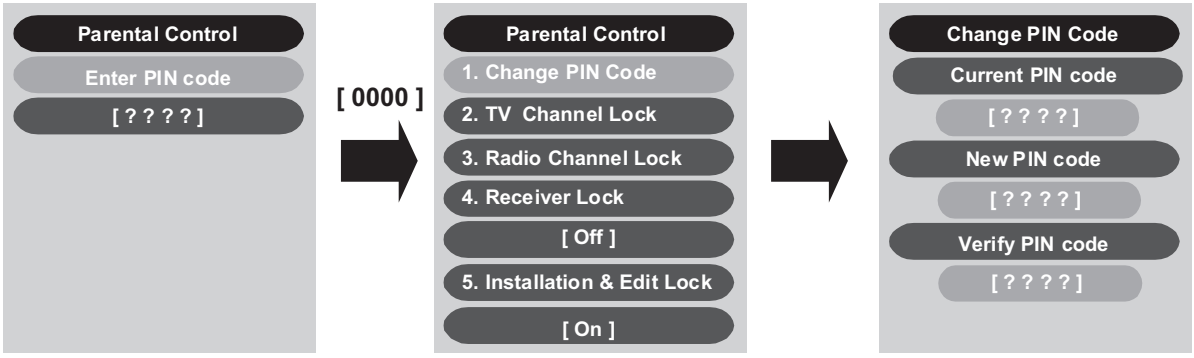

SMATV Configuration
Symbol rate alternative 1 27500
Symbol rate alternative 2 ◄ ? ►
Symbol rate alternative 3 ?
FEC Auto
Start Auto Search
To return to the previous Menu, press MENU

This receiver has a SMATV-IF facility to operate this SMATV.
This configuration allows the direct distribution of the QPSK signal received from the satellite to the SMATV-IF distribution network in the extended IF band (above 950 MHz).

Before you start, you have to check your condition whether it is possible to use this facility or not in your households. (You can ask your household supervisor.)

If this receiver is connected to a SMATV network, select "SMATV Configuration".
The most common alternatives for "Symbol rate" and "FEC" are already preprogrammed.
(When you need to change the "Symbol rate" for the exceptional frequency, select as you know.)
Move to "Start Auto Search" and just press "**OK**".
Then, the "Auto Search" procedure will start.

Parental Control



Change PIN Code

Preprogrammed PIN (Personal Identification Number) code is set as [0000]. If you want to change it, please follow the procedure shown above.

Receiver Lock

If Receiver Lock is [On], you have to input the correct code to operate the Receiver.

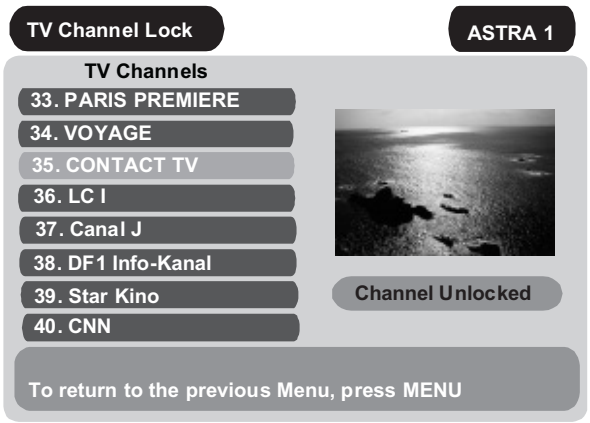
Installation & Edit Lock

You can not enter directly into installation menu and Edit menu when In stallation & Edit Lock is [On].

TV Channel Lock

Press **OK** to lock / unlock the selected channel. Locked channels will be skipped when scrolling through channels.

Note) The color of the highlighted bar turns to Grey when it is on a locked channel. You can see the current channel display on this menu. If you want to view the current TV channel, press "**VIEW**" key on the remote control.

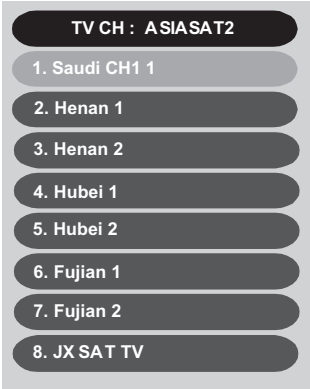


TV Channels

You can select the channel you would like to watch either by pressing the numeric keys for the channel number or by moving the highlighted bar to the channel of your choice using the ▲ ▼ keys. Press the **OK** key to select the channel.

* Press the ◄ ► keys to move one page up or down.

+ : to High channel, - : to Low channel

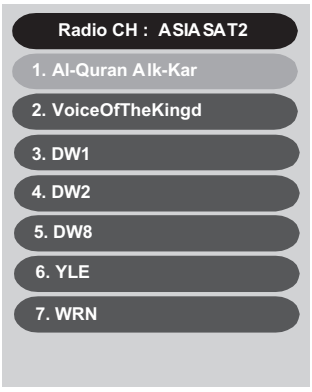


Radio Channels

You can select the channel you would like to watch either by pressing the numeric keys for the channel number or by m oving the highlighted bar to the channel of your choice using the ▲ ▼ keys. Press the **OK** key to select the channel.

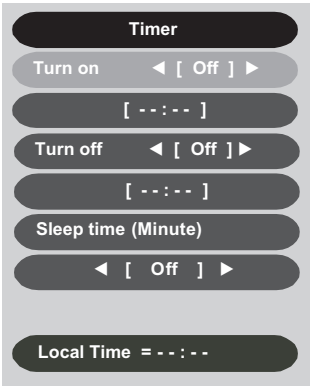
* Press the ◄ ► keys to move one page up or down.

+ : to High channel, - : to Low channel



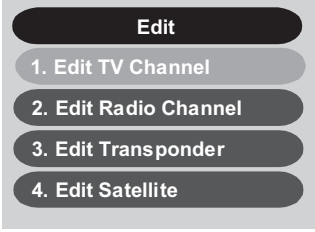
Timer

You can reserve the Turn On, Turn Off time of the receiver and sleep time on this menu



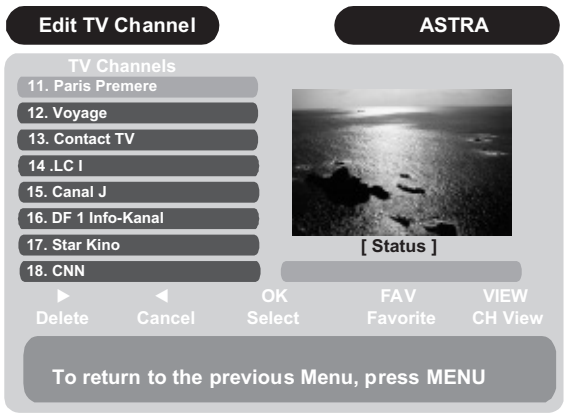
Edit

You can edit the TV channels and Radio channels, TP and Satellites on this menu. If the Installation&Edit Lock is ON, enter the PIN code. For more information, refer the page No. 10.



Edit TV Channel

You can move to the channel that you want to edit by using the ▲▼ keys.
Also you can move to the highlighted bar directly by inputting the channel number.
Press the **OK** key to select the channel you want to edit, and then you can move the channel to the position you want or delete it. If you want to view the current TV channel, press "**VIEW**" key on the remote control.

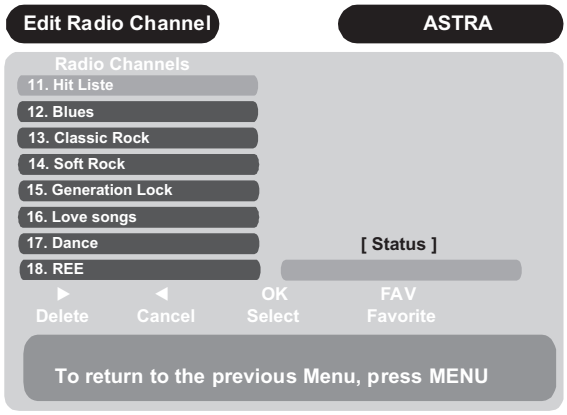


FAV Channels

You can create a group of up to 96 channels in the "**Edit TV Channel**" or "**Edit Radio Channel**" menu.
To include a channel in the FAV list, select a channel and press the blue key on the remote control.
To select a favorite channel from the FAV list, press the FAV key.
To view a thumb nail representation of the currently selected channel, press the VIEW key on the remote control.

Edit Radio Channel

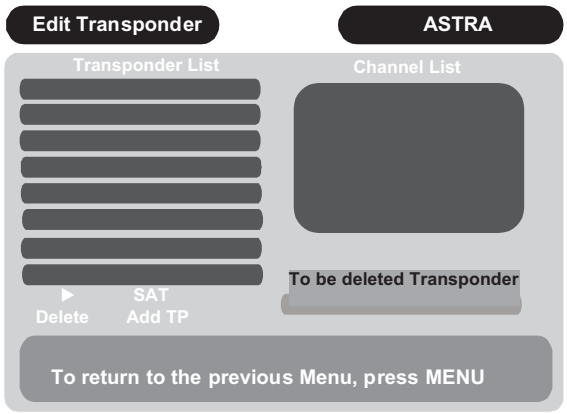
Use the same procedure for the Radio Channel s as used for editing the TV Channels as above.



Edit Transponder

To delete a transponder, press the ► when the highlighted bar is located at the transponder you want to delete.

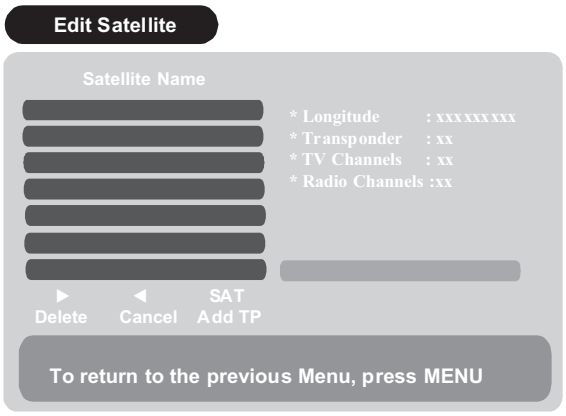
To add a transponder, press SAT key.
And then, "**Edit/Add SAT or TP**" menu will be display ed, and you can add a transponder in that menu.



Edit Satellite

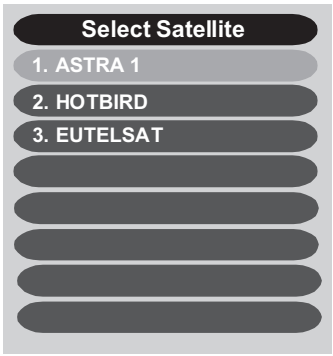
To delete a satellite, press the ▶ when the highlighted bar is located at the transponder you want to delete.

To add a satellite, press the SAT key.
And then, "**Edit/Add SAT or TP**" menu will be displayed, and you can add a satellite in that menu.



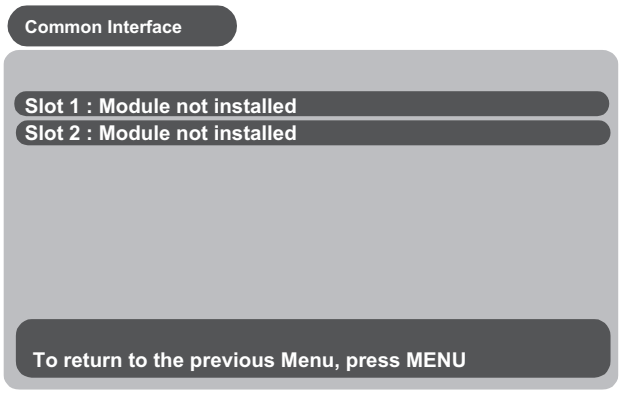
Select Satellite

To move to another satellite you want to watch, press the SAT key on the remote control and choose the proper satellite with the channel up/down keys (▲▼).
Press **OK** to confirm.



Common Interface

From here you will get access to information and menus connected to the CI module.
This information may vary a lot depending on the service provider.
Please see the documentation delivered together with your CI module.



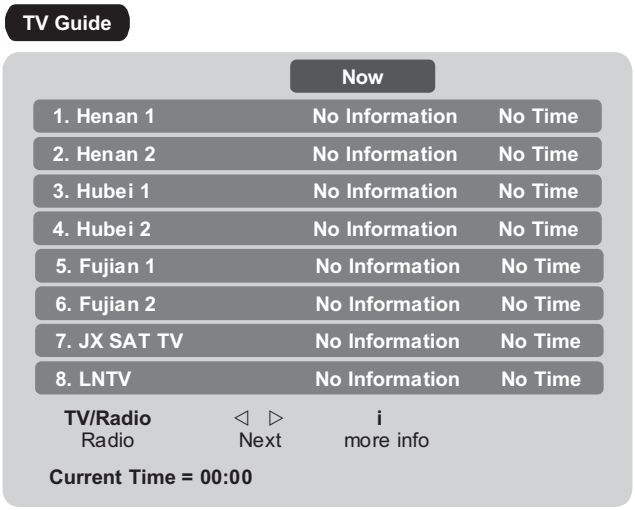
ALT Audio

If more than one audio channel is provided by the broadcaster on a specific channel, you can activate the audio mode display by pressing the key.

TV Guide

While watching or listening to any channel, if you want to know more information regarding the program shown, press the GUIDE key on the remote control to display the "TV Guide" or the "Radio Guide".
You can move to another channel by pressing the ▲▼ keys and step through the time zones by pressing the ◄► keys.
The title(contents) of the program and playing time zone for each channel are available only when the information provided by the broadcaster.

If you want to view the current TV channel, press "**VIEW**" key on the remote control.


TV Guide
Now
1. Henan 1 No Information No Time
2. Henan 2 No Information No Time
3. Hubei 1 No Information No Time
4. Hubei 2 No Information No Time
5. Fujian 1 No Information No Time
6. Fujian 2 No Information No Time
7. JX SAT TV No Information No Time
8. LNTV No Information No Time
TV/Radio
Radio
◁ ▷
Next
i
more info
Current Time = 00:00

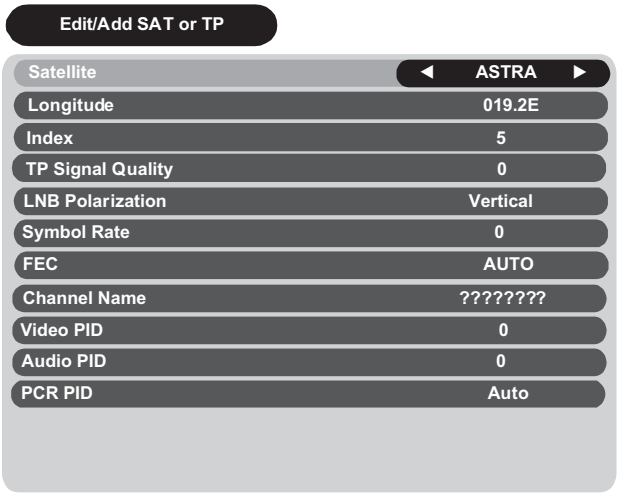
Advanced Installation

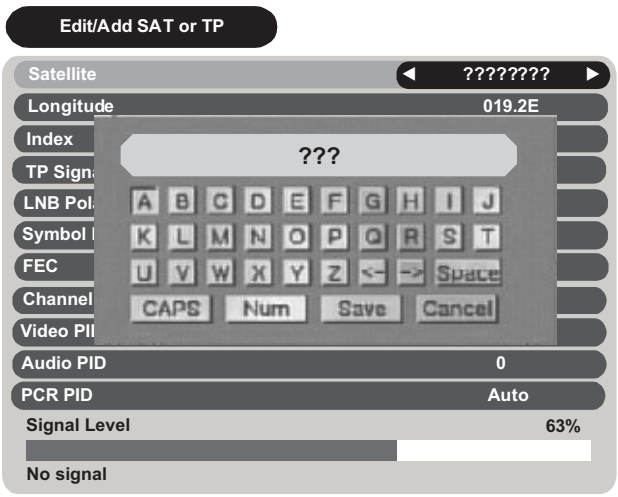
Edit/Add SAT or TP

You can edit a pre-programmed satellite name and add a new one in this menu.
Also you can edit and add Transponder Frequency parameter by using the ◄► keys.

To add a new satellite name, press **OK** after moving to [????????] mode for satellite, then the graphic keyboard will be activated. After entering new satellite name and press OK on the"Save" on the keyboard.
And then, you can set each parameters by giving the data for Transponder Freq., LNB Polarization, Symbol Rate.

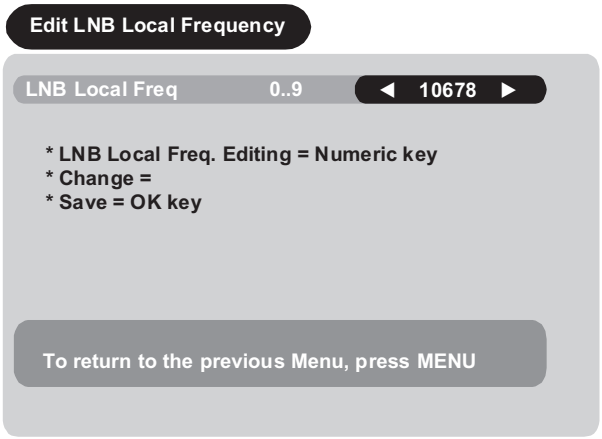
To edit an additional transponder on a pre-programmed satellite, you should input all the required data after moving to the satellite you want to edit.





Edit LNB Local Frequency

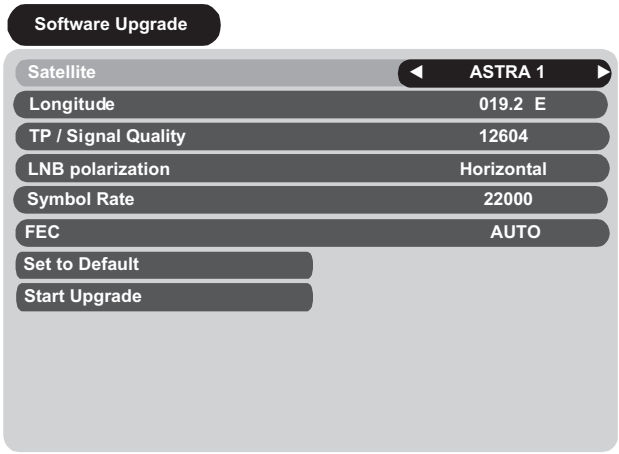
You can edit up to 8 local frequencies by using numeric keys.
And if you want to save newly edited frequency, press **OK**.


Edit LNB Local Frequency
LNB Local Freq
0..9
10678
* LNB Local Freq. Editing = Numeric key
* Change =
* Save = OK key
To return to the previous Menu, press MENU

Software Upgrade

In this menu, you can upgrade the receiver with new software being provided from the satellite.
After putting in the correct data provided by the broadcaster and pressing **OK** key on the "Start Upgrade" bar, "**Checking new software**" is displayed on the TV screen, then search the software.

1. If there is no new software for upgrading, following messages are displayed.
   "**No new software**" on the TV screen
   "**None**" on the LED displayed on the front panel.
   Then, the present channel is displayed on the screen.

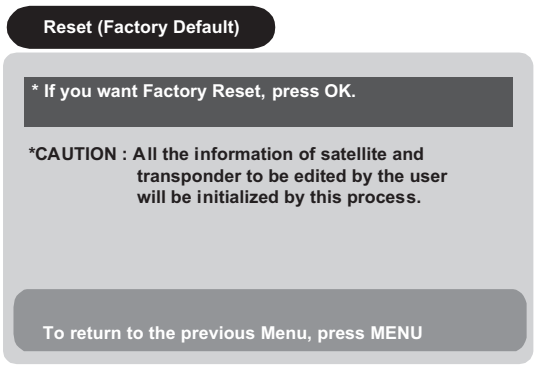


2. If there is a new software for upgrading, the software upgrade is started and "**OTA**" is displayed on the LED. After finishing upgrading, "**done**" is displayed on the LED and "**Upgrade completed**" on the screen. Then, the present channel is displayed.

Note: 1. Please do not turn off the receiver while upgrading.)
2. In case of putting in wrong data for the upgrade, press **OK** key on the "Set Default" bar.

Reset (Factory Default)

If you want to reset all the data edited, press **OK** twice.


Reset (Factory Default)
* If you want Factory Reset, press OK.
*CAUTION : All the information of satellite and transponder to be edited by the user will be initialized by this process.
To return to the previous Menu, press MENU

6. Specifications

1. Tuner & Channel

Input Connector	1 x F type with Loopthrough
Output Connector	1 x F type 75 Ohm IF signal out
Frequency Range	950MHz to 2150MHz
Input Impedance	75 Ohm
Signal Level	-25 to -65dBm
IF Frequency	480MHz
IF Bandwidth	36MHz
LNB Power & Polarization	Vertical +13.5V ~+14.5V
	Horizontal +17.5V ~+18.5V
22KHz Tone	Frequency 22kHz ±2kHz
	Amplitude 0.6Vp-p ±0.2Vp-p
Demodulation	QPSK
Input Symbol Rate	2 ~ 32Msps
FEC Decoder	Convolutional Code Rate
	1/2, 2/3, 3/4, 5/6, and 7/8 with Constraint
	Length K=7

2. MPEG Transport Stream A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818
	Transport Stream Specification
Profile & Level	MPEG-2 MP @ ML
Input T/S Data Rate	80Mbit/S Max.
Aspect Ratio	4:3, 16:9 with Pan Vector
Video Resolution	720 x 576(PAL), 720 x 480(NTSC)
Audio Decoding	MPEG Audio Layer 1,2, Musicam
Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono
Sampling Rate	32, 44.1, and 48kHz

3. Memory

Flash Memory	up to 2 Mbytes
Program DRAM	8 Mbytes
EEPROM	2 Kbytes

4. A/V & Data In/Out

SCART	TV x 1, VCR x 1
RGB Video Out	TV x 1 (SCART socket)
S/PDIF Out	RCA X 1
Analog Audio Out	RCA x 2 (L-CH x 1, R-CH x 1)
	2 x SCART socket(TV, VCR)
	Resolution 16bit DAC
	Output Level 2Vrms Max.
	Volume & Mute Control
Data Interface	RS232C, BAUD Rate 115200 Max , 9Pin D-SUB

5. Power Supply

Input Voltage	AC207-253V, 45~55Hz
Type	Linear PWM
Power Consumption	30W Max. (Below 7W Max. For Standby Mode)
Protection	Separate internal fuse and chassis grounding
	The Input shall have lighting
	or Electric Shock Protection.

6. Physical Specification

Size (W x H x D)	250mm x 40mm x 200mm
Weight	about 2 Kg

7. Environment

Operating Temperature	+5°C ~+50°C
Storage Temperature	-40°C ~+65°C

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